

**CONLEY**  
**ASSOCIATES**

# Memorandum

To: Jennifer Conley, P.E., AICP, PTOE  
From: Leslie Grant, Transportation Engineer  
CC:  
Date: November 2, 2007  
Re: The Residences at Quail Ridge

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Conley Associates, Inc. would like to address several questions raised by the Planning Board at the hearing on October 23, 2007 including a comment regarding the expected queuing on Great Road (Route 2A/119) at the intersection of Great Road at Main Street (Route 27) and the potential for another project access point along Great Road.

Conley Associates, Inc. reviewed the queues expected at the intersection of Great Road at Main Street during the weekday AM, weekday PM, and Saturday midday peak hours. The Board's specific question was if the queue of vehicles on the Great Road approach to the intersection of Great Road at Main Street would extend past the intersection of Great Road at Skyline Drive. Based on the synchro analysis, the longest queue (the 95<sup>th</sup> percentile queue) on Great Road is only expected to be approximately 320 feet. The distance between the intersection of Great Road at Main Street and Great Road at Skyline Drive is approximately 650 feet. Therefore, the longest queue on the Great Road approach to the intersection of Great Road at Main Street is not expected to extend past the intersection of Great Road at Skyline Drive.

The Board's other question was regarding the impact of an additional access point to the site along Great Road. The proponent previously proposed an additional access point through the Acorn Park neighborhood, which was strongly opposed by those neighbors. Because of that, access to the project site was restricted to Skyline Drive only.

An additional access point would still result in the same number of vehicles turning left onto Great Road. The additional access point on Great Road would also experience lengthy delays due to the vehicles turning left onto Great Road. The current plan for the Residences at Quail Ridge is to limit the impact of those trips to one location (Skyline Drive). This will limit the impact to other area residents, by not adding trips to their unsignalized approaches.

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